

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Juan Carlos Parodi	: Art Unit:
Application No.:	To Be Assigned	: Examiner:
Filed:	Herewith	:
FOR:	ARTERIAL GRAFT DEVICE (As Amended)	:

CONTINUATION OF:

Applicant:	Juan Carlos Parodi	: Art Unit: 2165
Application No.:	08/822,858	: Examiner: M. Milano
Filed:	March 24, 1997	:
FOR:	ARTERIAL GRAFT DEVICE AND METHOD OF POSITIONING THE SAME	:

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, DC 20231

SIR:

Prior to examination, please amend the above-identified application as follows.

IN THE TITLE:

Please amend the title to read as follows:

ARTERIAL GRAFT DEVICE

IN THE SPECIFICATION:

At page 1, after the title of the invention, please insert the following sentence:

This application is a continuation of U.S. Application No. 08/822,858, filed March 24, 1997, pending.

At page 1, before line 1, please insert the following heading:

**FIELD OF THE INVENTION**

At page 1, after line 9, please insert the following heading:

**BACKGROUND OF THE INVENTION**

At page 2, after line 9, please insert the following heading:

**SUMMARY OF THE INVENTION**

At page 3, before line 1, please insert the following heading:

**BRIEF DESCRIPTION OF THE DRAWINGS**

At page 3, after line 25, please insert the following heading:

**DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

**IN THE CLAIMS:**

Please cancel claims 1-9 and add the following new claims:

- 1        10. (Newly Added) An arterial graft device for reinforcing
- 2        bifurcated arteries having a distal main artery portion and two proximal legs
- 3        extending from a bifurcation, the arterial graft device comprising a body
- 4        adapted for at least partial placement in the main artery portion and a
- 5        separate elongated segment, the body including: (a) an integral elongated
- 6        segment extending proximally from a bifurcated juncture to a first of the two
- 7        legs to internally connect the main artery portion with the first leg; and (b) a
- 8        second segment extending proximally from the bifurcated juncture towards
- 9        the second leg and comprising: (i) a curved connecting portion; (ii) a
- 10      transition portion of proximally increasing diameter; and (iii) a third portion
- 11      having a greater diameter than the transition portion, the second segment for

12 receiving and guiding a catheter guidewire inserted along the second leg and  
13 for guiding the separate elongated segment of the graft device for connection  
14 with the second segment.

1 11. (Newly Added) The graft device of claim 10 further  
2 comprising an expandable retaining device to affix the body to the main  
3 artery portion.

1 12. (Newly Added) The graft device of claim 10, wherein  
2 the separate elongated segment further comprises an axially extended and  
3 entirely circumferentially extended outer connecting surface adapted to bear  
4 upon the connecting portion of the body.

1 13. (Newly Added) The graft device of claim 10, wherein  
2 the second segment is formed by a foldable structure, which can be  
3 compressed and expanded and inserted together with the body within a  
4 catheter sheath.

1 14. (Newly Added) The graft device of claim 10, wherein  
2 the second segment and the body comprise a unitary structure of the same  
3 material.

1 15. (Newly Added) The graft device according to claim 14,  
2 wherein the material is selected from the group comprising plastic and metal  
3 and the device is expandable by any of the following mechanisms: balloon  
4 expansion, thermal memory, elasticity, spring-loaded elasticity, and  
5 autoexpansion.

1 16. (Newly Added) The graft device according to claim 14,  
2 wherein the material is polyethylene or polytetrafluoroethylene.

1 17. (Newly Added) The graft device according to claim 10,  
2 wherein the graft device forms a bifurcated aortic endoluminal graft adapted  
3 for being disposed within the infra-renal aorta and the iliac arteries, the  
4 integral elongated segment extending into a first iliac artery and the second  
5 segment extending in the aorta towards a second iliac artery.

1                   18. (Newly Added) An arterial graft device for reinforcing  
2 bifurcated arteries having a distal main artery portion and two proximal legs  
3 extending from a bifurcation, the arterial graft device comprising a body  
4 adapted for at least partial placement in the main artery portion and a  
5 separate elongated segment, the body including: (a) an integral elongated  
6 segment extending proximally from a bifurcated juncture to a first of the two  
7 legs to internally connect the main artery portion with the first leg; and (b) a  
8 second segment having a connecting opening and extending towards the  
9 second leg and having a connecting surface of distally increasing diameter as  
10 the second segment extends from the connecting opening towards the  
11 bifurcated juncture and of proximally increasing diameter as the second  
12 segment extends from the connecting opening towards the second leg for  
13 receiving and guiding a catheter guidewire inserted along the second leg and  
14 for guiding the separate elongated segment of the graft device for connection  
15 with the second segment.

1                   19. (Newly Added) The graft device of claim 18 further  
2 comprising an expandable retaining device to affix the body to the main  
3 artery portion.

1                   20. (Newly Added) The graft device of claim 18, wherein  
2 the separate elongated segment further comprises an axially extended and  
3 entirely circumferentially extended outer connecting surface adapted to bear  
4 upon the connecting surface of the body.

1                   21. (Newly Added) The graft device of claim 18, wherein  
2 the second segment is formed by a foldable structure, which can be  
3 compressed and expanded and inserted together with the body within a  
4 catheter sheath.

1                   22. (Newly Added) The graft device of claim 18, wherein  
2 the second segment and the body comprise a unitary structure of the same  
3 material.

1           23. (Newly Added) The graft device according to claim 22,  
2 wherein the material is selected from the group comprising plastic and metal  
3 and the device is expandable by any of the following mechanisms: balloon  
4 expansion, thermal memory, elasticity, spring-loaded elasticity, and  
5 autoexpansion.

1           24. (Newly Added) The graft device according to claim 22,  
2 wherein the material is polyethylene or polytetrafluoroethylene.

1           25. (Newly Added) The graft device according to claim 18,  
2 wherein the graft device forms a bifurcated aortic endoluminal graft adapted  
3 for being disposed within the infra-renal aorta and the iliac arteries, the  
4 integral elongated segment extending into a first iliac artery and the second  
5 segment extending in the aorta towards a second iliac artery.

**IN THE ABSTRACT:**

Please replace the abstract with the new abstract which is attached as a separate sheet.

Respectfully submitted,



Christopher R. Lewis, Reg. No. 36,201  
Attorney for Applicant

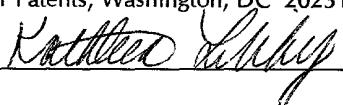
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Dated: June 20, 2001  
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Kathleen Libby

VERSION WITH MARKINGS TO SHOW CHANGES MADEIN THE TITLE:

ARTERIAL GRAFT DEVICE ~~AND METHOD OF~~  
~~POSITIONING THE SAME~~

IN THE SPECIFICATION:

The following headings have been inserted into the application:

At page 1, after the title of the invention:

This application is a continuation of U.S. Application No.  
08/822,858, filed March 24, 1997, pending.

At page 1, before line 1:

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

IN THE CLAIMS:

Claims 1-9 have been canceled.

Claims 10-25 have been added.

IN THE ABSTRACT:

An arterial graft device and a process for positioning the same, wherein ~~said the~~ the device comprises a first part positioned by conventional techniques within the artery, and a second part ~~positioned on the first part by guiding means which are~~ which is positioned and fixed on the first part by a segment which is provided on the first part so as to prevent a catheter guidewire ~~whereby said second~~ whereby the second part is positioned in place - from deviating and damaging arterial walls.

### ABSTRACT

An arterial graft device and a process for positioning the same, wherein the device comprises a first part positioned by conventional techniques within the artery, and a second part which is positioned and fixed on the first part by a segment which is provided on the first part so as to

5 prevent a catheter guidewire - whereby the second part is positioned in place - from deviating and damaging arterial walls.